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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,971	09/11/2003	Charles W. Boecker	X-1358 US	5028
24309	7590	01/24/2007	EXAMINER	
XILINX, INC			BOCURE, TESFALDET	
ATTN: LEGAL DEPARTMENT			ART UNIT	PAPER NUMBER
2100 LOGIC DR			2611	
SAN JOSE, CA 95124				
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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Office Action Summary	Application No.	Applicant(s)	
	10/659,971	BOECKER ET AL.	
	Examiner	Art Unit	
	Tesfaldet Bocure	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 11 September 2003.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1-14 and 17-24 is/are allowed.
- 6) Claim(s) 15 and 16 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 11 September 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date <u>9/11/03&2/10/04</u> .	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Information Disclosure Statement

1. The Information Disclosure Statements (IDSs) received on February 10, 2004 and September 11, 2003 have been considered by the Examiner and the initialed copies of the IDSs are attached with this correspondence.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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3. Claims 15 and 16 rejected under 35 U.S.C. 102(e) as being anticipate by **Toucich** (US patent number 6,927,644).

Toucich teaches an integrated circuit capacitive device (fig. 1) comprising: a first plate fabricated on a metal layer (130,132) having a first geometric shape; a second plate fabricated on the metal layer (140,142) having a second geometric shape, wherein the first and second geometric shapes form a finger arrangement (see both of the capacitor layers intertwined like fingers, see also col. 5, lines 22-41) to produce a capacitor structure; and doping block (see col. 1, lines 46-67 and starting col. 4, line 60 through col. 5, line 66) encompassing the capacitor structure to provide impedance in series with parasitic capacitance of the capacitor structure as in claim 15.

Further to claim 16, the first and the second layers (132 and 142) having a corresponding geometric shape, and the second metal layer (140 or 130) coupled to the first geometric shape (130 or 140, taking either one as first or second metal layer).

Allowable Subject Matter

4. Claims 1-14 and 17-24 are allowed.

5. The following is an examiner's statement of reasons for allowance: the claimed subject matter in claims is allowable because the arts of record fail to teach or fairly suggest the claimed "high speed receiver (a multi-gigabit transceiver in claim 9 and a receive3r termination network in claim 17) includes:

an AC coupled bias circuit (142) operably coupled to provide a common mode reference (144) and to high pass filter the high-speed data (146) to produce the filtered high-speed data; in combination with a DC matched termination circuit (140 in figs 4-6) operably coupled to provide a termination of a transmission line coupling the high-speed receiver to a transmission source and to receive high-speed data via the transmission line; and

a receiver analog front-end biased in accordance with the common mode reference, wherein the receiver analog front-end is operably coupled to amplify the filtered high-speed data to produce amplified high-speed data as in claims 1,9 and 17); and a data recovery module operably coupled to recover data from the amplified high-speed data as in claims 1 and 9."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patent number 6,856,169 issued to Frans et al. discloses a transceiver circuit having a data termination circuit comprising a DC termination and AC coupling circuits.

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US patent number 5,583,359 issued to Ng et al. and US Publication numbers 2002/0149448 and 2005/0013090 issued Toncich and Abrens et al., respectively disclose an integrated circuit capacitive design having a finger shaped first and second capacitors.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tesfaldet Bocure whose telephone number is (571) 272-3015. The examiner can normally be reached on Mon-Thur (7:30a-5:00p) & Mon.-Fri (7:30a-5:00p).

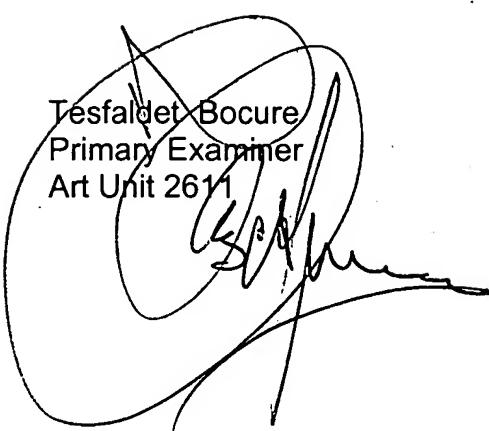
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jayanti (Jay) Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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T.Bocure

Tesfaldet Bocure
Primary Examiner
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A handwritten signature in black ink, appearing to read "T. Bocure". The signature is fluid and cursive, with the initials "T." and "B." being more distinct.